#7

SEQUENCE LISTING

<110> Genzyme Corporation
       Srinivas, Shankara
       Charles, Nicolette

<120> ANTIGENIC PEPTIDE CONCATOMERS

<130> GA0197C

<140> US 09/928,213
<141> 2001-08-10

<150> PCT/US00/03655
<151> 2000-02-10

<150> 60/120,002
<151> 1999-02-11

<150> 60/161,845
<151> 1999-10-27

<160> 32

<170> PatentIn version 3.1

<210> 1
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> AChR epitope

<400> 1

Tyr Asn Leu Lys Trp Asn Tyr Asn Leu Lys Trp Asn Tyr Asn Leu Lys
1   5   10   15

Trp Asn

<210> 2
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> AChR epitope

<400> 2

Pro Asp Asp Tyr Gly Gly Pro Asp Asp Tyr Gly Gly Pro Asp Asp Tyr
1   5   10   15

Gly Gly

<210> 3
<211> 18
<212> PRT

<213> Artificial Sequence

<220>
<223> AChR epitope

<400> 3

Val Lys Lys Ile His Ile Val Lys Lys Ile His Ile Val Lys Lys Ile
1   5   10   15

His Ile

<210> 4
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> AChR epitope

<400> 4

Lys Trp Asn Pro Asp Asp Lys Trp Asn Pro Asp Asp Lys Trp Asn Pro
1   5   10   15

Asp Asp Tyr

<210> 5
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> AChR epitope

<400> 5

Tyr Gly Gly Val Lys Lys Tyr Gly Gly Val Lys Lys Tyr Gly Gly Val
1   5   10   15

Lys Lys

<210> 6
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> AChR epitope

<400> 6

Trp Asn Pro Asp Asp Tyr Gly Gly Val Lys Trp Asn Pro Asp Asp Tyr
1   5   10   15

Gly Gly Val Lys
            20

<210> 7
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> gp100-209 epitope concatomer

<400> 7
attactgacc aggtaccttt ctccgtg   27

<210> 8
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> gp100-209 epitope concatomer

<400> 8
tggtcagtaa tcacggagaa aggtacct   28

<210> 9
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> gp100-209 epitope concatomer

<400> 9
ggccgatatc atgattactg accaggtacc   30

<210> 10
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> gp100-209 epitope concatomer

<400> 10
ggccactagt gatcacggag aaaggtacct   30

<210> 11
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> gp100-209 epitope concatomer

<400> 11
attactgacc aggtaccttt ctccgtg   27

<210> 12

```
<211>  27
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  gp100-209 epitope concatomer

<400>  12
cacggagaaa ggtacctggt cagtaat                                          27


<210>  13
<211>  107
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  gp209 epitope construct

<400>  13
aattcccacc atggcggccg caattactga ccaagtacct ttctccgtgg ctgcagctgc      60

tgctggtatt ggtattttaa ctgtggccgc ggcttaatta atttaac                   107


<210>  14
<211>  113
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  alpha-globin stability element

<400>  14
taagctggag cctcggtagc cgttcctcct gcccgctggg cctcccaacg ggccctcctc      60

ccctccttgc accggccttc ctggtctttg aataaagtct gagtgggcgg cct            113


<210>  15
<211>  400
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  9 copy recombinant concatomer

<220>
<221>  misc_feature
<222>  (45)..(45)
<223>  n is any nucleic acid


<220>
<221>  misc_feature
<222>  (61)..(61)
<223>  n is any nucleic acid


<220>
<221>  misc_feature
<222>  (72)..(72)
<223>  n is any nucleic acid
```

```
<220>
<221>  misc_feature
<222>  (88)..(88)
<223>  n is any nucleic acid


<220>
<221>  misc_feature
<222>  (99)..(99)
<223>  n is any nucleic acid


<220>
<221>  misc_feature
<222>  (115)..(115)
<223>  n is any nucleic acid


<220>
<221>  misc_feature
<222>  (126)..(126)
<223>  n is any nucleic acid


<220>
<221>  misc_feature
<222>  (132)..(132)
<223>  n is any nucleic acid


<220>
<221>  misc_feature
<222>  (142)..(142)
<223>  n is any nucleic acid


<220>
<221>  misc_feature
<222>  (153)..(153)
<223>  n is any nucleic acid


<220>
<221>  misc_feature
<222>  (169)..(169)
<223>  n is any nucleic acid


<220>
<221>  misc_feature
<222>  (180)..(180)
<223>  n is any nucleic acid


<220>
<221>  misc_feature
<222>  (196)..(196)
<223>  n is any nucleic acid


<220>
<221>  misc_feature
<222>  (207)..(207)
<223>  n is any nucleic acid
```

<220>
<221> misc_feature
<222> (223)..(223)
<223> n is any nucleic acid

<220>
<221> misc_feature
<222> (234)..(234)
<223> n is any nucleic acid

<220>
<221> misc_feature
<222> (380)..(380)
<223> n is any nucleic acid

<400> 15
atgattactg accaggtacc tttctccgtg attactgacc aggtnccttt ctccgtgatt   60

nctgaccagg tncctttctc cgtgattnct gaccaggtnc ctttctccgt gattnctgac   120

caggtncctt tctccgtgat tnctgaccag gtnccttct ccgtgattnc tgaccaggtn   180

cctttctccg tgattnctga ccaggtncct ttctccgtga ttnctgacca ggtnccttc   240

tccgtgtaaa ctagagggcc ctattctata gtgtcaccta aatgctagag ctcgctgatc   300

agcctcgact gtgccttcta gttgccagcc atctgttgtt tgccctcccc ccgtgccttc   360

cttgaccctg gaaggtgccn ctcccactgt cctttcctaa   400

<210> 16
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> 9 copy recombinant concatomer

<400> 16
atgattactg accaggtacc tttctccgtg   30

<210> 17
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> jmpl str

<400> 17
attactgacc aggtaccttt ctccgtg   27

<210> 18
<211> 27
<212> DNA
<213> Artificial Sequence

<220>

```
<223>  9 copy recombinant concatomer

<220>
<221>  misc_feature
<222>  (15)..(15)
<223>  n is any nucleic acid


<400>  18
attactgacc aggtnccttt ctccgtg                                              27


<210>  19
<211>  23
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  jmpl str

<400>  19
attactgacc aggtaccttt ctc                                                  23


<210>  20
<211>  23
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  9 copy recombinant concatomer

<220>
<221>  misc_feature
<222>  (4)..(4)
<223>  n is any nucleic acid


<220>
<221>  misc_feature
<222>  (15)..(15)
<223>  n is any nucleic acid


<400>  20
attnctgacc aggtnccttt ctc                                                  23


<210>  21
<211>  26
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  jmpl str

<400>  21
attactgacc aggtaccttt ctccgt                                               26


<210>  22
<211>  28
<212>  DNA
<213>  Artificial Sequence
```

```
<220>
<223>  9 copy recombinant concatomer

<220>
<221>  misc_feature
<222>  (4)..(4)
<223>  n is any nucleic acid


<220>
<221>  misc_feature
<222>  (15)..(15)
<223>  n is any nucleic acid


<400>  22
attnctgacc aggtnccttt ctcccgtg                                              28


<210>  23
<211>  27
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  jmpl str

<400>  23
attactgacc aggtaccttt ctccgtg                                               27


<210>  24
<211>  27
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  9 copy recombinant concatomer

<220>
<221>  misc_feature
<222>  (4)..(4)
<223>  n is any nucleic acid


<220>
<221>  misc_feature
<222>  (15)..(15)
<223>  n is any nucleic acid


<400>  24
attnctgacc aggtnccttt ctccgtg                                               27


<210>  25
<211>  22
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  jmpl str

<400>  25
attactgacc aggtaccttt ct                                                    22
```

```
<210>  26
<211>  22
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  9 copy recombinant concatomer

<220>
<221>  misc_feature
<222>  (4)..(4)
<223>  n is any nucleic acid


<220>
<221>  misc_feature
<222>  (15)..(15)
<223>  n is any nucleic acid


<400>  26
attnctgacc aggtnccttt ct                                                22


<210>  27
<211>  27
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  jmpl str

<400>  27
attactgacc aggtaccttt ctccgtg                                           27


<210>  28
<211>  27
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  9 copy recombinant concatomer

<220>
<221>  misc_feature
<222>  (4)..(4)
<223>  n is any nucleic acid


<220>
<221>  misc_feature
<222>  (15)..(15)
<223>  n is any nucleic acid


<400>  28
attnctgacc aggtnccttt ctccgtg                                           27


<210>  29
<211>  27
<212>  DNA
```

<213> Artificial Sequence

<220>
<223> jmpl str

<400> 29
attactgacc aggtaccttt ctccgtg   27

<210> 30
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> 9 copy recombinant concatomer

<220>
<221> misc_feature
<222> (4)..(4)
<223> n is any nucleic acid

<220>
<221> misc_feature
<222> (15)..(15)
<223> n is any nucleic acid

<400> 30
attnctgacc aggtnccttt ctccgtg   27

<210> 31
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> jmpl str

<400> 31
attactgacc aggtaccttt c   21

<210> 32
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> 9 copy recombinant concatomer

<220>
<221> misc_feature
<222> (4)..(4)
<223> n is any nucleic acid

<220>
<221> misc_feature
<222> (15)..(15)
<223> n is any nucleic acid

<400> 32
attnctgacc aggtnccttt c   21